

AMENDMENT TO THE CLAIMS

Claims 1-28 canceled.

29. (Currently Amended) A femoral component for an artificial hip joint, said femoral component comprising:

a base stem segment comprising a tip portion and a cylinder portion extending outwardly from the tip portion along a [[the]] diaphysial axis, and additional segments including at least a shoulder segment for a proximal end of a femur and each additional segment having a bore to be centered on the diaphysial axis, the bore of each additional segment receiving the cylinder extending throughout the entire additional segment along the diaphysial axis and the bore of each additional segment receiving the outwardly extending cylinder portion extending along the diaphysial axis, the cylinder portion in the bore of each additional segment forming the sole member to hold the segments, including at least the base segment and the shoulder segment in with the bores in axial alignment.

2 30. (Previously Presented) The femoral component of claim 29 further including an intermediate stem segment fitted on the cylinder portion between the base stem segment and the shoulder segment.

3 31. (Currently Amended) The femoral component of claim 29 wherein the shoulder segment has a surface formed around a collum centrum axis for mounting a base of a support for a ~~femur shaft~~ and head prosthesis lying along and centered on the collum-centrum axis.

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32. (Currently Amended) The femoral component of claim 29¹ wherein the stem segments support ~~[[and]]~~ a ~~femur shaft~~ and head prosthesis having a central axis and a support surface, the shoulder segment having a medial surface centered around the central ~~a collum-centrum~~ axis of the head prosthesis ~~shoulder segment~~ and at least one tension carrying member anchored in the ~~femur shaft~~ and head prosthesis and clamping the support surface of the ~~femur shaft~~ and head prosthesis against the medial surface of the shoulder segment section, said tension carrying member extending to the exterior of a femur to hold the medial surface and support surface together when the segments and ~~shoulder segment and femur shaft~~ and head prosthesis are supported on a femur.

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33. (Currently Amended) The femoral component of claim 32⁴ wherein the medial surface on the shoulder segment is concave and the support surface on the head ~~femur shaft and neck~~ prosthesis is complimentary in shape.